

IN THE SPECIFICATION:

Please amend the specification by replacing the identified paragraphs with the paragraphs below.

Please replace paragraph [0035] at pages 10-11 with the following:

[0035] The processor 18 is one or more of an application specific integrated circuit, a general processor, a digital signal processor, a control processor or other device operable to select different ones of the plurality of transmit sequences and of the plurality of transmit levels in response to a single input from the user input control or in response to an automatic measurement. For example, the processor 18 is operable to obtain a measure of contrast agent response and automatically select a different one of the plurality of transmit sequences and of the plurality of transmit levels in response to the measure. In response to user input initiating automatic transmit power setting or in response to software, the processor 18 determines the contrast agent imaging transmit power as a function of a comparison of sequentially acquired first and second data. The processor 18 compares sequentially acquired first and second detected data, such as loss of correlation detected data, to determine a transmit power associated with destruction or non-destruction of contrast agent. The comparison and setting of the contrast agent imaging transmit power is performed automatically by the processor 18. User input to initiate or override the automatic setting may be provided. Such processes are taught, for example, in U.S. Patent No. 6,899,681 (U.S. Application Serial No. 10/077,499), the disclosure of which is incorporated herein by reference.

Please replace paragraph [0044] at pages 13-14 with the following:

[0044] Paths 2a and 2b are responsive to the processor 18 automatically setting the transmit level or contrast agent detection technique in response to a measurement. A characteristic of received signals responsive to a current transmit level is measured. The transmit level setting is then selected as a function of the measured characteristic. In one embodiment, the system gain is also automatically set as a function of the selected transmit level. Any now known or later developed measurements may be used, such as disclosed in U.S. Patent No. 6,899,681 (U.S. Application Serial No. 10/077,499).

Please replace paragraph [0065] at pages 22-23 with the following:

[0065] Another contrast agent imaging parameter is the availability of scale and/or pulse repetition interval options. Acquisition of velocity information is allowed in addition to contrast agent detection for "low" transmit levels. Adjustment of the corresponding velocity scale is allowed. For the "high" transmit level, acquisition of velocity information in addition to contrast agent detection is prevented as contrast agent destruction at "high" levels may degrade accuracy of velocity estimation. Making different PRI and scale options available for "low" and "mid" transmit level imaging allows a range and strength of motion to be estimated with the use of contrast agents. A simple example is Color Doppler Velocity imaging or Color Doppler Energy imaging. These motion estimates can be simultaneously estimated and presented with perfusion estimates by combining traditional Doppler transmit sequences with preferred contrast sequences (see US Patent No. 6,632,177 ~~—————~~ (U.S. Application Serial No. 10/136,935), the disclosure of which is incorporated herein by reference). These single or multiple scale options, derived from the PRI options, are for detecting motion in addition to the perfusion level. For "High" transmit level imaging, increasing the time between successive transmit pulses per image line is not necessary as agents are easily disrupted with minimum PRIs based on desired imaging depths. PRI options are not available for "high" transmit level imaging. For high transmit levels, the range or strength of motion of contrast agents without additional motion information is provided.